UNITED STATES DEPARTMENT OF THE INTERIOR

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GEOCHEMICAL ANALYSES OF ROCK AND STREAM-SEDIMENT SAMPLES FROM THE WILD ROGUE WILDERNESS AREA, COOS, CURRY, AND DOUGLAS COUNTIES, OREGON

by

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This report is preliminary and
has not been edited or reviewed
for conformity with Geological
Survey standards or nomenclature

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INTRODUCTION

The Wild Rogue Wilderness lies in the Klamath Mountains province of southwest Oregon in portions of Curry, Coos, and Douglas Counties. It is underlain largely by faulted pre-Tertiary volcanic and plutonic rocks that, on the west side of the Wilderness, are either overlain by Tertiary sedimentary rocks of the Coast Ranges or are in thrust contact with the Jurassic-Cretaceous Riddle Formation. On the east the pre-Tertiary volcanic and plutonic complex is faulted against the Dothan Formation also of Jurassic-Creatceous age.

Jurassic gabbro is the oldest rock type exposed in the Wild Rogue Wilderness. It structurally underlies andesitic to dacitic volcanic rocks along a northeast-trending contact which runs from Mule Mountain northeast to Mount Bolivar. Gabbro also occurs within a sheeted sequence of diabasic dikes.

The sheeted diabase dike sequence, best exposed along the Rogue River at Inspiration Point (see Ramp and Gray, 1980), consists mostly of dikes. The diabasic dikes are associated with a small fault slice of basaltic rocks that are exposed near Devil's Backbone and the mouth of East Creek. The basalt flows now metamorphosed to greenschist facies are intercalated with thin lenses of shale and minor chert. Both basalt and sheeted dikes are intruded by diorite.

The dioritic rocks were not seen intruding andesitic to dacitic rocks which are irregularly deposited on top of the gabbro unit. The volcanic rocks may be as much as 9,000 ft (3,000 m) in thickness and form the upper plate of a thrust sheet overriding the Riddle Formation.

Northeast trending, steeply dipping shears, gauge zones, and quartz-epidote veins occur throughout the Wilderness. These structures are subparallel to the major faults and contacts in the pre-Tertiary terranes, and are the sights of local mineralization.

During or after the latest stages of magmatism, the Dothan and Riddle Formations were simultaneously deposited in different basins. Thrust faulting juxtaposed, tightly folded, and locally overturned rocks of the two basins, then gave way to a less pervasive compressive tectonic regime that produced broad folds and vertical faults.

Three Eocene sedimentary cycles are recorded in the Wild Rogue Wilderness defined by the Lookingglass and Flournoy Formations of Baldwin (1974) and the Tyee Formation. Angular unconformities that bound all three formations indicate that tectonic activity continued throughout this period. After the Tyee Formation was deposited the region was uplifted and eroded. Dissection of the highlands by the ancestral Rogue River began by the late Tertiary and early Quaternary, leaving terrace deposits along the canyon walls.

ANALYTICAL DATA

Rock and stream-sediment samples were collected for semiquantitative emission spectrographic analysis(locations on map). In addition, stream-sediment samples were analyzed for Hg and As. Fresh bedrock representative of the units was collected. Fault gauge, veins, and shear zones were sampled by taking composite samples. Stream-sediment samples were collected from silty material close the the river bank.

Sample preparation and analytical procedure

Rock samples were crushed to 10 mm (.25 in), split, and pulverized prior to analysis by standard semiquantitative emission spectrography for 23 elements (table 1a) according to the techniques outlined in Grimes and Maranzino (1968). Stream-sediment samples were dried, sieved to minus-80 mesh, split, and pulverized. One portion was analyzed by standard semiquantitative emission spectrography for 31 elements and by instrumentation methods for Hg (Vaughn and McCarthy, 1964) (table 1b). Another portion was prepared using the oxalic acid leach method of Alminas and Mosier(1976) and analyzed by standard semiquantitative emission spectrography for 31 elements and by colorimetry for As (Ward and others, 1963). Analyses were performed by D. Petra, D. Grimes, C. Whittington, W. Vaughn, and B. Arbogast at the U.S. Geological Survey in Denver, Colorado.

Data

All values are reported in parts per million except for Fe, Mg, Ca, and Ti which are given in percents. Table 2 lists the analyses for the 256 rock samples and table 3 lists the analyses for the 40 stream sediment samples. For both tables those elements which did not have any values above the detection limits given in table 1 were omitted. Semiquantitative spectrographic analyses are reported as the midpoints of a six-step geometric interval whose boundaries are 0.12, 0.18, 0.26, 0.38, 0.56, 0.83, 1.2, etc. and whose midpoints are 0.15, 0.2, 0.3, 0.5, 0.7, 1.0, etc. The precision of these values is approximately plus or minus one interval at 68 percent or two intervals at 98 percent convidence (D. J. Grimes, oral commun., 1980). Colorimetric and instrumental methods are quantitative and values are reported as point values.

Analytical values may be qualified. The qualifying codes found in tables 2 and three are as follows:

N	Not detected at the limit of analytical determination
L	Detected but below the limit of analytical determination
G	Detected but above the limit of analytical determination
H	No data because of analytical interference
B	No analysis performed

Analytical values were stored in the U.S. Geological Survey RASS system (Rock Analysis Storage System) (Van Trump and Miesch, 1976). STATPAC (STATistical PACkage) files were generated for both rock and stream sediment data using RASS program Retrieval (b860). Subsequently the STATPAC program

Table 1.--Detection limits of elements analyzed, in parts per million (ppm) except where noted. All elements were analyzed by spectrographic methods except for instrumental mercury and colorimetric arsenic (Cm-As).

a. Rock analyses

Element	Detection limit	Element	Detection limit
Fe	0.05%	Cr	10.
Ca	0.05%	Cu	5.
Mn	10.	Mo	5.
Ag	0.5	Ni	5.
As	200.	Pb	10.
Au	10.	Sb	100.
B	10.	Sn	10.
Ba	20.	V	10.
Be	1.	W	50.
Bi	10.	Zn	200.
Cd	20.	Th	10.
Co	5.		

b. Stream-sediment analyses

Element	Detection limit	Element	Detection limit
Fe	0.05%	La	20.
Mg	0.02%	Mo	5.
Ca	0.05%	Nb	20.
Ti	0.002%	Ni	5.
Mn	10.	Pb	10.
Ag	0.5	Sb	100.
As	200.	Sc	5.
Au	10.	Sn	10.
B	10.	Sr	100.
Ba	20.	V	10.
Be	1.	W	50.
Bi	10.	Y	10.
Cd	20.	Zn	200.
Co	5.	Zr	10.
Cr	10.	Th	100.
Cu	5.	Inst-Hg	0.02
		Cm-As	10.

Table 2.--Rock geochemical analyses (Fe and Ca in percent; others in parts per million. L, Detected but below limit of analytical determination; N, Not detected at the limit of analytical determination; G, Detected but above the limit of analytical determination; B, No analysis performed.)

WILD ROGUE ROCK GEOCHEM

ROWNO	SAMPLE	S-FE%	S-CA%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BI	S-CD
1	79WG200	5.00	2.00	500.00	0.500N	200.N	10.0N	20.L	100.	10.N	20.N
2	79WG201	10.00	5.00	1000.00	0.500N	200.N	10.0N	20.	20.N	10.N	20.N
3	79WG202	7.00	1.50	700.00	0.500N	200.N	10.0N	100.	20.N	10.N	20.N
4	79WG204	5.00	3.00	1000.00	0.500N	200.N	10.0N	20.L	50.	10.N	20.N
5	79WG204B	10.00	2.00	1000.00	0.500N	200.N	10.0N	20.	70.	10.N	20.N
6	79WG205	10.00	3.00	700.00	0.500N	200.N	10.0N	20.	20.	10.N	20.N
7	79WG207	3.00	2.00	500.00	0.500N	200.N	10.0N	20.L	50.	10.N	20.N
8	79WG208	5.00	3.00	1000.00	0.500N	200.N	10.0N	20.L	20.L	10.N	20.N
9	79WG225	7.00	1.00	2000.00	1.000	200.N	10.0N	30.	150.	10.N	20.N
10	79WG231	7.00	2.00	1000.00	0.500N	200.N	10.0N	20.	20.	10.N	20.N
11	79WG235	5.00	2.00	1000.00	0.500N	200.N	10.0N	20.L	20.L	10.N	20.N
12	79WG237	7.00	1.50	700.00	0.500N	200.N	10.0N	20.	300.	10.N	20.N
13	79WG239	7.00	2.00	1500.00	0.500N	200.N	10.0N	50.	200.	10.N	20.N
14	79WG240	10.00	1.00	1000.00	0.500N	200.N	10.0N	50.	200.	10.N	20.N
15	79WG245	5.00	0.10	1000.00	0.500N	200.N	10.0N	20.L	20.	10.N	20.N
16	79WG247	7.00	2.00	1500.00	0.500N	200.N	10.0N	20.	300.	10.N	20.N
17	79WI011	5.00	0.70	1000.00	0.500N	200.N	10.0N	20.L	100.	10.N	20.N
18	79WI014	10.00	1.50	1000.00	0.500L	200.N	10.0N	20.	20.L	10.N	20.N
19	79WI015	7.00	2.00	1000.00	0.500N	200.N	10.0N	20.L	20.L	10.N	20.N
20	79WI016	3.00	5.00	700.00	0.500N	200.N	10.0N	20.	20.	10.N	20.N
21	79WI017	7.00	0.05L	500.00	0.500N	200.N	10.0N	200.	20.N	10.N	20.N
22	79WI018	5.00	0.70	700.00	0.500N	200.N	10.0N	70.	200.	10.N	20.N
23	79WI019	3.00	2.00	500.00	1.000	200.N	10.0N	20.L	20.L	10.N	20.N
24	79WI020	10.00	2.00	1500.00	0.500N	200.N	10.0N	20.	200.	10.N	20.N
25	79WI023	2.00	1.00	500.00	0.500N	200.N	10.0N	20.	200.	10.N	20.N
26	79WI026	5.00	1.50	1000.00	0.500N	200.N	10.0N	20.	20.N	10.N	20.N
27	79WI027	3.00	0.20	700.00	0.500N	200.N	10.0N	20.L	20.	10.N	20.N
28	79WI031	7.00	3.00	1000.00	0.500N	200.N	10.0N	20.L	20.N	10.N	20.N
29	79WI032	5.00	1.50	1000.00	0.500N	200.N	10.0N	20.	200.	10.N	20.N
30	79WI035	5.00	2.00	500.00	0.500N	200.N	10.0N	30.	20.N	10.N	20.N
31	79WI039	5.00	0.50	500.00	0.500L	200.N	10.0N	100.	300.	10.N	20.N
32	79WI040	7.00	2.00	500.00	0.500N	200.N	10.0N	20.L	20.L	10.N	20.N
33	79WI041	7.00	2.00	700.00	0.500N	200.N	10.0N	20.	100.	10.N	20.N
34	79WI045	3.00	1.50	1000.00	0.500N	200.N	10.0N	20.L	20.N	10.N	20.N
35	79WI048	3.00	1.50	500.00	0.500N	200.N	10.0N	30.	70.	10.N	20.N
36	79WI049	5.00	3.00	700.00	0.500N	200.N	10.0N	50.	20.N	10.N	20.N
37	79WI051	7.00	3.00	1000.00	10.000	200.N	10.0N	100.	100.	10.N	20.N
38	79WI052	5.00	2.00	1000.00	0.500N	200.N	10.0N	70.	200.	10.N	20.N
39	79WI056	2.00	2.00	1000.00	0.500N	200.N	10.0N	20.L	20.	10.N	20.N
40	79WI058	10.00	1.50	1000.00	0.500N	200.N	10.0N	20.	20.L	10.N	20.N
41	79WI060	7.00	1.50	1000.00	7.000	200.N	10.0N	20.	20.	10.N	20.N
42	79WI064	7.00	2.00	500.00	0.500N	200.N	10.0N	20.L	20.L	10.N	20.N
43	79WI067	5.00	2.00	1000.00	0.500N	200.N	10.0N	20.	20.N	10.N	20.N
44	79WI068	5.00	5.00	2000.00	0.500N	200.N	10.0N	20.	20.	10.N	20.N
45	79WI069	7.00	3.00	700.00	0.500N	200.N	10.0N	20.	50.	10.N	20.N
46	79WI070	7.00	1.50	700.00	0.500N	200.N	10.0N	70.	100.	10.N	20.N
47	79WI071	5.00	1.50	1000.00	0.500N	200.N	10.0N	50.	200.	10.N	20.N
48	79WI073	5.00	1.50	700.00	0.500N	200.N	10.0N	30.	50.	10.N	20.N
49	79WI074	3.00	0.70	700.00	0.500N	200.N	10.0N	20.L	150.	10.N	20.N
50	79WI075	2.00	0.20	500.00	0.500N	200.L	10.0N	20.L	20.L	10.N	20.N

WILD ROGUE ROCK GEOCHEM-continued

ROWNO	SAMPLE	S-CO	S-CR	S-CU	S-MO	S-NI	S-PB	S-V	S-ZN
1	79WG200	7.	10.N	5.L	5.N	5.L	20.N	30.	200.N
2	79WG201	30.	50.	5.L	5.N	30.	20.N	200.	200.N
3	79WG202	50.	3000.	100.	5.N	1500.	20.N	50.	200.N
4	79WG204	20.	200.	100.	5.N	70.	20.N	150.	200.N
5	79WG204B	30.	30.	50.	5.N	15.	20.N	200.	200.N
6	79WG205	50.	300.	100.	5.N	150.	20.N	100.	200.N
7	79WG207	30.	500.	70.	5.N	200.	20.N	100.	200.N
8	79WG208	50.	500.	70.	5.N	150.	20.N	70.	200.N
9	79WG225	20.	50.	2000.	5.N	15.	20.	200.	200.N
10	79WG231	50.	200.	100.	5.N	100.	20.N	200.	200.N
11	79WG235	30.	500.	70.	7.	200.	20.N	100.	200.N
12	79WG237	20.	10.	150.	5.N	7.	20.N	150.	200.N
13	79WG239	20.	20.	150.	5.	20.	20.L	200.	200.N
14	79WG240	20.	10.	100.	5.N	10.	20.N	200.	200.N
15	79WG245	15.	10.	70.	5.N	15.	20.N	100.	200.N
16	79WG247	20.	10.L	70.	5.N	5.	20.N	200.	200.N
17	79WI011	10.	10.L	10.	7.	10.	20.N	50.	200.N
18	79WI014	30.	10.	200.	5.N	20.	20.N	200.	200.N
19	79WI015	30.	50.	100.	5.N	30.	20.N	200.	200.N
20	79WI016	20.	150.	50.	5.N	50.	20.N	150.	200.N
21	79WI017	100.	3000.	10.	5.N	2000.	20.N	20.	200.N
22	79WI018	10.	100.	20.	5.N	30.	20.L	100.	200.N
23	79WI019	20.	100.	150.	5.N	50.	20.N	150.	200.N
24	79WI020	50.	70.	150.	5.N	50.	20.N	200.	200.N
25	79WI023	10.	10.N	100.	5.N	5.L	20.	100.	200.N
26	79WI026	20.	10.N	70.	5.N	5.	20.N	150.	200.N
27	79WI027	5.L	10.N	50.	5.N	5.	20.N	30.	200.N
28	79WI031	30.	50.	15.	5.N	30.	20.N	150.	200.N
29	79WI032	20.	10.	100.	5.N	7.	20.L	200.	200.N
30	79WI035	20.	10.	70.	5.	10.	20.N	200.	200.N
31	79WI039	30.	150.	50.	5.N	100.	20.	100.	200.N
32	79WI040	50.	30.	30.	7.	50.	20.N	200.	200.N
33	79WI041	30.	50.	70.	5.N	30.	20.N	200.	200.N
34	79WI045	20.	70.	20.	5.N	50.	20.N	150.	200.N
35	79WI048	10.	20.	5.L	7.	10.	20.N	100.	200.N
36	79WI049	30.	20.	70.	5.N	30.	20.N	200.	200.N
37	79WI051	20.	70.	50.	5.	20.	50.	200.	200.N
38	79WI052	15.	70.	100.	5.N	20.	20.N	200.	200.N
39	79WI056	30.	500.	50.	5.	200.	20.N	70.	200.N
40	79WI058	30.	10.N	100.	5.N	15.	20.N	300.	200.N
41	79WI060	20.	30.	150.	5.N	30.	20.L	300.	200.N
42	79WI064	5.	10.N	500.	7.	5.L	20.N	200.	200.N
43	79WI067	15.	10.N	20.	5.N	5.	20.N	500.	200.
44	79WI068	30.	200.	50.	5.N	100.	20.N	200.	200.N
45	79WI069	30.	30.	50.	5.N	70.	20.N	200.	200.N
46	79WI070	20.	20.	100.	5.N	15.	20.	300.	200.N
47	79WI071	30.	10.	100.	5.N	15.	20.L	300.	200.N
48	79WI073	20.	10.L	70.	5.N	15.	20.N	300.	200.N
49	79WI074	10.	10.N	50.	5.N	5.	20.N	100.	200.N
50	79WI075	5.N	10.N	5.L	5.	5.L	20.N	20.	200.N

WILD ROGUE ROCK GEOCHEM-continued

ROWNO	SAMPLE	S-FE%	S-CA%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BI	S-CD
51	79WI076	3.00	0.07	1000.00	0.500N	200.N	10.0N	20.L	150.	10.N	20.N
52	79WR001	7.00	3.00	1000.00	0.500N	200.N	10.0N	20.L	30.	10.N	20.N
53	79WR002	10.00	1.50	1500.00	0.500N	200.N	10.0N	20.L	30.	10.N	20.N
54	79WR003	5.00	5.00	700.00	0.500N	200.N	10.0N	20.N	20.N	10.N	20.N
55	79WR004	5.00	1.50	1000.00	0.500N	200.N	10.0N	100.	100.	10.N	20.N
56	79WR005	5.00	0.30	100.00	0.500N	200.N	10.0N	20.L	200.	10.N	20.N
57	79WR006	3.00	1.00	300.00	0.500N	200.N	10.0N	20.L	150.	10.N	20.N
58	79WR007	10.00	0.10	20.00	2.000	200.N	10.0N	20.N	20.L	10.N	20.N
59	79WR008	5.00	3.00	1000.00	0.500N	200.N	10.0N	20.L	20.L	10.N	20.N
60	79WR009	7.00	2.00	1500.00	0.500N	200.N	10.0N	20.L	70.	10.N	20.N
61	79WR010	3.00	1.00	500.00	0.500N	200.N	10.0N	70.	300.	10.N	20.N
62	79WR011	7.00	0.05L	200.00	70.000	200.N	10.0N	20.	150.	10.	20.N
63	79WR012	3.00	3.00	700.00	0.500L	200.N	10.0N	20.L	20.N	10.N	20.N
64	79WR013	5.00	2.00	700.00	0.500N	200.N	10.0N	20.L	20.N	10.N	20.N
65	79WR014	10.00	2.00	200.00	0.500	200.N	10.0N	20.	20.N	10.N	20.N
66	79WR015	5.00	2.00	500.00	0.500N	200.N	10.0N	20.L	20.L	10.N	20.N
67	79WR016	7.00	2.00	700.00	0.500L	200.N	10.0N	20.	20.L	10.N	20.N
68	79WR017	0.10	0.20	200.00	0.500L	200.N	10.0N	20.	150.	10.N	20.N
69	79WR018	3.00	2.00	1000.00	0.500N	200.N	10.0N	20.L	20.	10.N	20.N
70	79WR019	0.50	1.00	100.00	0.500N	200.N	10.0N	20.	50.	10.N	20.N
71	79WR020	3.00	1.50	200.00	0.500N	200.N	10.0N	20.L	20.	10.N	20.N
72	79WR021	2.00	1.00	200.00	0.500	200.N	10.0N	20.	20.L	10.N	20.N
73	79WR022	7.00	3.00	500.00	5.000	200.N	10.0N	20.L	20.N	10.N	20.N
74	79WR023	5.00	2.00	500.00	0.500N	200.N	10.0N	20.	20.	10.N	20.N
75	79WR024	15.00	0.05L	20.00	0.500N	200.N	10.0N	20.N	20.L	10.N	20.N
76	79WR025	2.00	1.50	100.00	0.500N	200.N	10.0N	20.	100.	10.N	20.N
77	79WR026	7.00	3.00	1000.00	0.500N	200.N	10.0N	20.	50.	10.N	20.N
78	79WR027	10.00	2.00	700.00	0.500L	200.N	10.0N	20.	20.L	10.N	20.N
79	79WR030	10.00	0.30	200.00	5.000	200.N	10.0N	20.L	700.	10.N	20.N
80	79WR031	15.00	5.00	1000.00	15.000	200.N	10.0N	20.	20.L	10.N	20.N
81	79WR032	10.00	1.00	200.00	0.500N	200.N	10.0N	20.	30.	10.N	20.N
82	79WR033	5.00	1.00	200.00	0.500N	200.N	10.0N	20.L	20.	10.N	20.N
83	79WR034	1.00	0.30	30.00	0.500N	200.N	10.0N	20.L	20.L	10.N	20.N
84	79WR035	3.00	0.50	200.00	1.000	200.N	10.0N	50.	200.	10.N	20.N
85	79WR036	5.00	2.00	1500.00	0.500N	200.N	10.0N	50.	700.	10.N	20.N
86	79WR037	3.00	0.05	300.00	0.500N	200.N	10.0N	200.	20.N	10.N	20.N
87	79WR038	2.00	5.00	1000.00	0.500N	200.N	10.0N	20.N	20.N	10.N	20.N
88	79WR040	1.00	1.00	100.00	0.500N	200.N	10.0N	20.	70.	10.N	20.N
89	79WR041	10.00	1.00	700.00	0.500N	200.N	10.0N	20.	20.L	10.N	20.N
90	79WR042	1.00	0.70	100.00	0.500	200.N	10.0N	20.	20.N	10.N	20.N
91	79WR043	2.00	0.70	500.00	0.500N	200.N	10.0N	20.	500.	10.N	20.N
92	79WR044	5.00	1.50	700.00	0.500N	200.N	10.0N	20.	300.	10.N	20.N
93	79WR045	5.00	2.00	700.00	0.500N	200.N	10.0N	20.L	20.L	10.N	20.N
94	79WR046	5.00	2.00	1000.00	0.500N	200.N	10.0N	20.L	100.	10.N	20.N
95	79WR047	7.00	0.70	500.00	0.500N	200.N	10.0N	20.L	20.L	10.N	20.N
96	79WR048	5.00	0.50	500.00	0.500N	200.N	10.0N	20.L	30.	10.N	20.N
97	79WR050	2.00	1.50	300.00	0.500N	200.N	10.0N	30.	100.	10.N	20.N
98	79WR051	2.00	1.50	500.00	0.500N	200.N	10.0N	20.	500.	10.N	20.N
99	79WR052	7.00	3.00	1000.00	0.500N	200.N	10.0N	20.	20.	10.N	20.N
100	79WR053	0.50	0.50	100.00	0.500L	200.N	10.0N	20.L	20.N	10.N	20.N

WILD ROGUE ROCK GEOCHEM-continued

ROWNO	SAMPLE	S-CO	S-CR	S-CU	S-MO	S-NI	S-PB	S-V	S-ZN
51	79WI076	5.	10.N	5.L	5.N	7.	20.N	10.	200.N
52	79WR001	30.	150.	50.	5.N	50.	20.N	200.	200.N
53	79WR002	50.	50.	150.	5.N	30.	20.N	500.	200.N
54	79WR003	20.	100.	30.	5.N	30.	20.N	100.	200.N
55	79WR004	20.	20.	50.	5.N	20.	20.N	200.	200.N
56	79WR005	5.N	10.N	100.	5.L	5.L	20.N	300.	200.N
57	79WR006	5.	10.N	30.	5.L	5.L	20.L	20.	200.N
58	79WR007	20.	20.	500.	10.	15.	20.L	200.	200.N
59	79WR008	30.	300.	50.	5.N	70.	20.N	200.	200.N
60	79WR009	30.	30.	100.	5.N	30.	20.N	300.	200.N
61	79WR010	20.	150.	50.	5.N	70.	20.	100.	200.N
62	79WR011	5.	20.	1000.	7.	5.L	20000.	200.	1500.
63	79WR012	7.	10.N	10.	5.N	5.N	100.	70.	200.N
64	79WR013	20.	10.	20.	5.N	10.	30.	300.	200.N
65	79WR014	15.	10.N	15.	5.N	10.	100.	500.	200.N
66	79WR015	50.	150.	20.	5.N	50.	20.	200.	200.N
67	79WR016	30.	200.	100.	5.N	100.	30.	150.	200.N
68	79WR017	5.N	10.N	5.L	5.N	5.L	20.	10.L	200.N
69	79WR018	30.	100.	5.L	5.N	70.	20.N	100.	200.N
70	79WR019	5.N	10.N	5.L	5.N	5.L	20.N	30.	200.N
71	79WR020	7.	10.N	5.L	5.N	5.L	20.N	20.	200.N
72	79WR021	15.	150.	150.	5.N	100.	20.N	100.	200.N
73	79WR022	15.	10.L	5000.	5.N	10.	20.N	300.	200.N
74	79WR023	30.	150.	50.	5.N	50.	20.N	100.	200.N
75	79WR024	5.	200.	100.	10.	10.	20.N	70.	200.N
76	79WR025	5.	10.L	5.L	5.N	5.L	20.N	30.	200.N
77	79WR026	30.	20.	100.	5.N	10.	20.N	300.	200.N
78	79WR027	50.	200.	150.	5.N	70.	20.L	200.	200.N
79	79WR030	50.	30.	3000.	70.	10.	20.N	200.	200.N
80	79WR031	100.	10.	10000.	15.	15.	20.	500.	200.L
81	79WR032	50.	15.	150.	5.N	15.	20.N	200.	200.N
82	79WR033	20.	70.	50.	5.	20.	20.N	200.	200.N
83	79WR034	5.N	10.N	7.	5.L	5.L	20.N	10.	200.N
84	79WR035	5.	10.L	15.	5.N	5.L	20.N	200.	200.N
85	79WR036	30.	10.N	15.	5.N	5.	20.N	300.	500.
86	79WR037	70.	1500.	15.	5.N	2000.	20.N	20.	200.N
87	79WR038	30.	700.	5.L	5.N	300.	20.L	10.L	200.N
88	79WR040	5.	10.L	5.L	5.N	15.	20.N	50.	200.N
89	79WR041	30.	10.N	50.	5.N	10.	20.N	200.	200.N
90	79WR042	10.	20.	5.	5.N	20.	20.N	70.	200.N
91	79WR043	10.	10.N	20.	5.N	5.	20.L	50.	200.N
92	79WR044	30.	150.	50.	5.N	70.	20.N	150.	200.N
93	79WR045	20.	100.	50.	5.N	30.	20.N	200.	200.N
94	79WR046	50.	100.	70.	5.N	100.	20.N	200.	200.N
95	79WR047	7.	10.N	50.	5.N	7.	20.N	300.	200.N
96	79WR048	10.	10.N	50.	5.N	5.	20.N	100.	200.N
97	79WR050	10.	10.N	7.	5.N	7.	20.N	50.	200.N
98	79WR051	5.	10.N	5.L	5.N	5.L	20.N	50.	200.N
99	79WR052	30.	300.	70.	5.N	70.	20.N	200.	200.N
100	79WR053	5.N	10.N	50.	5.L	5.L	20.N	50.	200.N

WILD ROGUE ROCK GEOCHEM-continued

ROWNO	SAMPLE	S-FE%	S-CA%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BI	S-CD
101	79WR054	5.00	2.00	300.00	0.500N	200.N	10.0N	20.L	50.	10.N	20.N
102	79WG125	7.00	3.00	1500.00	0.500N	200.N	10.0N	20.L	70.	10.N	20.N
103	79WG126	2.00	0.05	1500.00	0.500N	200.N	10.0N	20.	150.	10.N	20.N
104	79WG127	10.00	5.00	1500.00	0.500N	200.N	10.0N	20.L	20.L	10.N	20.N
105	79WG128	7.00	2.00	1000.00	0.500N	200.N	10.0N	20.L	20.	10.N	20.N
106	79WG130	2.00	5.00	3000.00	0.500N	200.N	10.0N	50.	200.	10.N	20.N
107	79WG132	5.00	0.20	100.00	0.500	200.N	10.0N	200.	300.	10.N	20.N
108	79WG135	7.00	1.50	1000.00	0.500N	200.N	10.0N	20.L	700.	10.N	20.N
109	79WG137	5.00	0.05L	100.00	0.500N	200.N	10.0N	20.	200.	10.N	20.N
110	79WG138	5.00	0.70	1000.00	0.500N	200.N	10.0N	20.N	200.	10.N	20.N
111	79WG141	5.00	2.00	1500.00	0.500N	200.N	10.0N	20.N	20.N	10.N	20.N
112	79WG144	5.00	1.50	700.00	0.500N	200.N	10.0N	20.	200.	10.N	20.N
113	79WG145	10.00	1.50	1500.00	0.500N	200.N	10.0N	100.	20.	10.N	20.N
114	79WG146	7.00	1.00	1500.00	0.500N	200.N	10.0N	70.	500.	10.N	20.N
115	79WG147	0.70	1.00	100.00	0.500L	200.N	10.0N	20.N	20.N	10.N	20.N
116	79WG148	5.00	1.50	1000.00	0.500N	200.N	10.0N	20.L	20.N	10.N	20.N
117	79WG149	5.00	2.00	1500.00	0.500N	200.N	10.0N	30.	150.	10.N	20.N
118	79WG150	3.00	1.00	500.00	0.500N	200.N	10.0N	100.	500.	10.N	20.N
119	79WG151	10.00	3.00	1000.00	0.500N	200.N	10.0N	20.	30.	10.N	20.N
120	79WG152	7.00	1.50	1500.00	0.500N	200.N	10.0N	30.	200.	10.N	20.N
121	79WG153	10.00	2.00	1500.00	0.500N	200.N	10.0N	20.	150.	10.N	20.N
122	79WG155	5.00	1.50	1000.00	0.500N	200.N	10.0N	50.	200.	10.N	20.N
123	79WG158	5.00	0.50	500.00	0.500	200.N	10.0N	20.L	20.	10.N	20.N
124	79WG160A	7.00	2.00	1000.00	0.500N	200.N	10.0N	20.	30.	10.N	20.N
125	79WG160B	10.00	5.00	1000.00	0.500N	200.N	10.0N	20.L	20.	10.N	20.N
126	79WG160D	7.00	2.00	1000.00	0.500N	200.N	10.0N	20.	50.	10.N	20.N
127	79WG161	10.00	1.50	1000.00	0.500N	200.N	10.0N	50.	150.	10.N	20.N
128	79WG163	7.00	2.00	1000.00	0.500N	200.N	10.0N	50.	50.	10.N	20.N
129	79WG164	3.00	0.30	500.00	0.500L	200.N	10.0N	20.N	20.L	10.N	20.N
130	79WG165	7.00	1.50	700.00	0.500N	200.N	10.0N	20.L	100.	10.N	20.N
131	79WG166	7.00	1.00	500.00	0.500L	200.N	10.0N	300.	700.	10.N	20.N
132	79WG167A	1.00	0.20	500.00	0.500N	200.N	10.0N	20.L	200.	10.N	20.N
133	79WG167B	1.00	0.50	100.00	0.500	200.N	10.0N	20.L	200.	10.N	20.N
134	79WG168	5.00	1.50	700.00	0.500N	200.N	10.0N	20.	300.	10.N	20.N
135	79WG169	5.00	2.00	1000.00	0.500N	200.N	10.0N	20.	150.	10.N	20.N
136	79WG171	3.00	0.05	200.00	0.500N	200.N	10.0N	100.	200.	10.N	20.N
137	79WG174	5.00	0.50	500.00	0.500N	200.N	10.0N	150.	20.N	10.N	20.N
138	79WG178	3.00	0.70	500.00	0.500N	200.N	10.0N	20.	700.	10.N	20.N
139	79WG179	5.00	1.50	1000.00	0.500N	200.N	10.0N	20.L	500.	10.N	20.N
140	79WG183 *	5.00	0.10	300.00	0.500N	200.N	10.0N	300.	300.	10.N	20.N
141	79WG183F *	5.00	0.10	200.00	0.500N	200.N	10.0N	300.	300.	10.N	20.N
142	79WG209	10.00	0.15	500.00	70.000	200.	20.0	50.	150.	10.	50.
143	79WG213	2.00	1.00	300.00	0.500	200.N	10.0N	20.	50.	10.N	20.N
144	79WG214	5.00	0.50	1000.00	0.500N	200.N	10.0N	20.L	50.	10.N	20.N
145	79WG215	5.00	0.50	700.00	0.500N	200.N	10.0N	20.N	20.	10.N	20.N
146	79WG219	7.00	3.00	2000.00	0.500N	200.N	10.0N	50.	20.	10.N	20.N
147	79WG221	10.00	2.00	1000.00	0.500N	200.N	10.0N	20.	200.	10.N	20.N
148	79WG222	5.00	2.00	700.00	0.500N	200.N	10.0N	20.	100.	10.N	20.N
149	79WG224	10.00	2.00	1500.00	0.500N	200.N	10.0N	20.	200.	10.N	20.N
150	79WG229	10.00	3.00	1000.00	0.500N	200.N	10.0N	20.L	20.	10.N	20.N

* Sample located outside of map boundary

WILD ROGUE ROCK GEOCHEM-continued

ROWNO	SAMPLE	S-CO	S-CR	S-CU	S-MO	S-NI	S-PB	S-V	S-ZN
101	79WR054	15.	10.	10.	5.N	10.	20.N	300.	200.N
102	79WG125	30.	500.	100.	5.N	150.	20.N	200.	200.N
103	79WG126	5.	10.N	5.L	5.N	5.	20.N	30.	200.N
104	79WG127	30.	1500.	50.	5.N	150.	20.N	300.	200.N
105	79WG128	20.	100.	20.	5.N	50.	20.N	200.	200.N
106	79WG130	20.	200.	10.	5.N	100.	20.N	70.	200.N
107	79WG132	20.	150.	50.	5.N	100.	20.	150.	200.N
108	79WG135	50.	20.	100.	5.L	20.	20.N	500.	200.N
109	79WG137	5.N	30.	10.	5.N	30.	20.N	100.	200.N
110	79WG138	10.	10.N	50.	5.N	5.L	20.N	100.	200.N
111	79WG141	20.	300.	70.	5.N	70.	20.N	100.	200.N
112	79WG144	20.	20.	100.	5.N	20.	20.L	100.	200.N
113	79WG145	50.	50.	150.	5.N	30.	20.N	200.	200.N
114	79WG146	30.	10.L	70.	5.N	10.	20.N	200.	200.N
115	79WG147	5.N	10.L	5.	5.N	5.L	20.N	70.	200.N
116	79WG148	15.	10.N	20.	5.N	5.L	20.N	150.	200.N
117	79WG149	20.	30.	70.	5.N	20.	20.N	200.	200.N
118	79WG150	10.	70.	20.	5.N	30.	20.	100.	200.N
119	79WG151	50.	100.	70.	5.N	50.	20.N	300.	200.N
120	79WG152	30.	10.L	30.	5.N	15.	20.N	200.	200.N
121	79WG153	50.	10.L	200.	5.N	20.	20.N	500.	200.N
122	79WG155	20.	10.L	150.	5.N	5.	20.N	300.	200.N
123	79WG158	20.	50.	50.	5.N	20.	20.N	300.	200.N
124	79WG160A	20.	100.	7.	5.N	30.	20.N	500.	200.N
125	79WG160B	30.	150.	100.	5.N	50.	20.N	200.	200.N
126	79WG160D	30.	500.	50.	5.N	200.	20.N	150.	200.N
127	79WG161	30.	50.	50.	5.N	30.	20.N	300.	200.N
128	79WG163	20.	30.	100.	5.N	15.	20.N	200.	200.N
129	79WG164	7.	10.N	5.	5.N	5.	20.N	100.	200.N
130	79WG165	30.	200.	15.	5.N	50.	20.N	200.	200.N
131	79WG166	15.	30.	150.	5.L	5.	20.	500.	200.N
132	79WG167A	5.	10.N	10.	5.N	10.	20.L	30.	200.N
133	79WG167B	10.	10.N	7.	30.	15.	20.	50.	200.N
134	79WG168	30.	10.	100.	5.N	10.	20.N	300.	200.N
135	79WG169	20.	10.	50.	5.N	10.	20.N	200.	200.N
136	79WG171	15.	200.	20.	5.N	100.	20.L	100.	200.N
137	79WG174	70.	1500.	15.	5.N	2000.	20.N	30.	200.N
138	79WG178	15.	50.	10.	5.N	30.	20.	50.	200.N
139	79WG179	20.	70.	20.	5.L	50.	20.L	100.	200.N
140	79WG183 *	20.	100.	70.	5.N	100.	20.L	100.	200.N
141	79WG183F *	15.	100.	50.	5.N	70.	20.	70.	200.N
142	79WG209	10.	20.	1000.	7.	15.	7000.	100.	10000.
143	79WG213	10.	10.L	20.	5.N	10.	20.	100.	200.N
144	79WG214	15.	10.L	30.	5.N	10.	20.L	150.	200.N
145	79WG215	7.	10.N	50.	5.	5.	20.L	70.	200.N
146	79WG219	30.	20.	100.	5.N	30.	20.N	500.	200.N
147	79WG221	30.	15.	15.	5.N	10.	20.N	500.	200.N
148	79WG222	20.	20.	5.	5.N	20.	20.N	200.	200.N
149	79WG224	30.	20.	100.	5.N	20.	20.L	200.	200.N
150	79WG229	50.	30.	50.	5.N	30.	20.N	300.	200.N

* Sample located outside of map boundary

WILD ROGUE ROCK GEOCHEM-continued

ROWNO	SAMPLE		S-FE%	S-CA%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BI	S-CD
151	79WG230		7.00	5.00	1000.00	0.500N	200.N	10.0N	20.L	20.N	10.N	20.N
152	79WR109		5.00	1.00	1000.00	0.500N	200.N	10.0N	20.L	20.L	10.N	20.N
153	79WR110		7.00	1.00	2000.00	0.500N	200.N	10.0N	20.	200.	10.N	20.N
154	79WR111		5.00	2.00	1500.00	0.500N	200.N	10.0N	20.	20.	10.N	20.N
155	79WR112		10.00	1.00	500.00	0.500N	200.N	10.0N	20.L	20.	10.N	20.N
156	79WR113		10.00	1.50	2000.00	0.500N	200.N	10.0N	100.	150.	10.N	20.N
157	79WR114		5.00	2.00	1500.00	0.500N	200.N	10.0N	20.	50.	10.N	20.N
158	79WR115		5.00	1.50	1500.00	0.500	200.N	10.0N	30.	500.	10.N	20.N
159	79WR116		3.00	1.50	300.00	0.500N	200.N	10.0N	20.L	50.	10.N	20.N
160	79WR117		0.00B	0.00B	0.00B	0.000B	0.B	0.0B	0.B	0.B	0.B	0.B
161	79WR118		10.00	2.00	1000.00	0.500	200.N	10.0N	20.	20.N	10.N	20.N
162	79WR119		10.00	0.50	2000.00	0.500N	200.N	10.0N	20.L	20.L	10.N	20.N
163	79WR120		7.00	1.50	1000.00	0.500N	200.N	10.0N	20.L	20.L	10.N	20.N
164	79WR121		1.00	1.50	150.00	0.500N	200.N	10.0N	20.L	30.	10.N	20.N
165	79WR122		2.00	0.70	100.00	0.500N	200.N	10.0N	20.L	50.	10.N	20.N
166	79WR123		3.00	2.00	1000.00	0.500N	200.N	10.0N	20.L	50.	10.N	20.N
167	79WR124		2.00	1.00	200.00	0.500N	200.N	10.0N	20.L	30.	10.N	20.N
168	79WR125		20.00	1.00	3000.00	1.000	200.N	10.0N	70.	20.	10.N	20.N
169	79WR126		5.00	0.10	500.00	0.500N	200.N	10.0N	20.L	100.	10.N	20.N
170	79WR128		10.00	5.00	1500.00	0.500N	200.N	10.0N	20.	20.N	10.N	20.N
171	79WR132		10.00	0.07	500.00	0.500L	200.N	10.0N	300.	300.	10.N	20.N
172	79WR134	**	10.00	0.70	700.00	0.500N	200.N	10.0N	20.L	20.L	10.N	20.N
173	79WR135	*	10.00	1.50	1000.00	0.500N	200.N	10.0N	500.	200.	10.N	20.N
174	79WR141		15.00	2.00	2000.00	0.500N	200.N	10.0N	20.	150.	10.N	20.N
175	79WR144		10.00	1.50	700.00	0.500N	200.N	10.0N	20.L	20.	10.N	20.N
176	79WR145		7.00	2.00	1500.00	0.500N	200.N	10.0N	20.	70.	10.N	20.N
177	79WR146		5.00	1.50	1500.00	1.000	200.N	10.0N	20.	50.	10.N	20.N
178	79WR147		10.00	0.10	1500.00	1.500	200.N	10.0N	50.	150.	10.N	20.N
179	79WR150		5.00	0.15	1000.00	0.500L	200.N	10.0N	30.	150.	10.N	20.N
180	79WG001		5.00	5.00	700.00	0.500N	200.N	10.0N	20.L	20.N	10.N	20.N
181	79WG005		5.00	3.00	1500.00	0.500N	200.N	10.0N	20.L	20.	10.N	20.N
182	79WG006		7.00	0.50	1000.00	0.500N	200.N	10.0N	100.	200.	10.N	20.N
183	79WG007		5.00	1.50	500.00	0.500N	200.N	10.0N	20.L	20.L	10.N	20.N
184	79WG009		10.00	0.15	1500.00	0.500N	200.N	10.0N	20.	300.	10.N	20.N
185	79WG010		1.00	0.70	300.00	0.500L	200.N	10.0N	20.N	200.	10.N	20.N
186	79WG011		5.00	2.00	500.00	0.500N	200.N	10.0N	50.	20.N	10.N	20.N
187	79WG012		1.00	1.00	300.00	0.500N	200.N	10.0N	20.N	20.N	10.N	20.N
188	79WG014		3.00	2.00	1000.00	0.500N	200.N	10.0N	100.	200.	10.N	20.N
189	79WG015		1.00	0.05L	200.00	0.500N	200.N	10.0N	30.	50.	10.N	20.N
190	79WG016		2.00	0.70	500.00	0.500N	200.N	10.0N	50.	200.	10.N	20.N
191	79WG017		5.00	1.50	500.00	0.500N	200.N	10.0N	20.L	20.N	10.N	20.N
192	79WG019		2.00	5.00	200.00	0.500N	200.N	10.0N	20.	20.N	10.N	20.N
193	79WG020		7.00	3.00	1000.00	0.500N	200.N	10.0N	20.L	20.	10.N	20.N
194	79WG021		3.00	0.50	1000.00	0.500N	200.N	10.0N	20.L	20.L	10.N	20.N
195	79WG022		1.50	0.05L	70.00	0.500N	200.N	10.0N	20.L	20.N	10.N	20.N
196	79WG024		5.00	0.70	1500.00	0.500N	200.N	10.0N	20.L	20.L	10.N	20.N
197	79WG026		5.00	0.05	200.00	0.500N	200.N	10.0N	20.L	20.N	10.N	20.N
198	79WG028		2.00	0.15	200.00	0.500N	200.N	10.0N	20.	300.	10.N	20.N
199	79WG029		1.00	0.10	300.00	0.500N	200.N	10.0N	20.L	70.	10.N	20.N
200	79WG030		5.00	1.00	500.00	0.500N	200.N	10.0N	70.	300.	10.N	20.N

* Sample located outside of map boundary

WILD ROGUE ROCK GEOCHEM-continued

ROWNO	SAMPLE	S-CO	S-CR	S-CU	S-MO	S-NI	S-PB	S-V	S-ZN
151	79WG230	70.	150.	15.	5.N	100.	20.N	150.	200.N
152	79WR109	10.	10.N	50.	5.N	5.	20.N	100.	200.N
153	79WR110	10.	10.N	100.	5.N	5.	20.N	50.	200.N
154	79WR111	20.	150.	5.L	5.N	30.	20.N	150.	200.N
155	79WR112	20.	10.	20.	5.N	7.	20.N	50.	200.N
156	79WR113	20.	10.N	20.	5.N	10.	20.N	200.	200.N
157	79WR114	7.	10.N	5.N	5.N	7.	20.N	70.	200.N
158	79WR115	5.	10.N	50.	5.N	5.	20.N	100.	200.N
159	79WR116	5.L	10.N	5.L	5.N	5.	20.N	10.	200.N
160	79WR117	0.B	0.B	0.B	0.B	0.B	0.B	0.B	0.B
161	79WR118	20.	10.N	500.	5.N	20.	20.N	500.	200.N
162	79WR119	15.	100.	50.	5.N	50.	20.L	300.	200.N
163	79WR120	30.	1000.	15.	5.N	300.	20.N	100.	200.N
164	79WR121	5.N	10.N	10.	5.N	5.	20.N	70.	200.N
165	79WR122	5.N	10.N	5.L	10.	5.	20.N	10.	200.N
166	79WR123	5.	10.N	5.N	5.N	5.L	20.N	100.	200.N
167	79WR124	5.N	10.N	5.	5.N	5.L	20.N	20.	200.N
168	79WR125	20.	20.	500.	5.N	150.	20.L	300.	200.
169	79WR126	7.	10.N	20.	5.N	5.L	20.N	30.	200.N
170	79WR128	30.	1500.	30.	5.N	150.	20.N	200.	200.N
171	79WR132	20.	150.	100.	5.L	100.	20.	200.	200.N
172	79WR134 **	10.	10.N	70.	5.N	5.	20.N	10.	200.N
173	79WR135 *	20.	70.	20.	5.N	20.	20.N	300.	200.N
174	79WR141	30.	70.	70.	5.L	30.	20.N	1000.	200.N
175	79WR144	15.	10.N	5.L	5.N	5.	20.N	150.	200.N
176	79WR145	10.	10.N	70.	5.N	5.	20.N	100.	200.N
177	79WR146	5.	10.N	5.N	5.N	5.	20.N	100.	200.N
178	79WR147	5.N	10.N	50.	5.N	5.L	20.L	200.	200.N
179	79WR150	7.	50.	15.	5.	30.	20.L	100.	200.N
180	79WG001	20.	20.	200.	5.N	15.	20.N	200.	200.N
181	79WG005	15.	20.	50.	5.N	20.	20.N	200.	200.N
182	79WG006	10.	100.	20.	5.N	50.	20.L	300.	200.N
183	79WG007	20.	50.	20.	5.N	30.	20.N	200.	200.N
184	79WG009	30.	10.	100.	5.N	20.	20.N	500.	200.N
185	79WG010	5.N	10.N	10.	5.N	10.	20.L	30.	200.N
186	79WG011	15.	30.	15.	5.N	15.	20.N	200.	200.N
187	79WG012	5.L	10.N	5.N	5.N	5.L	20.N	20.	200.N
188	79WG014	15.	150.	10.	5.N	100.	20.N	100.	200.N
189	79WG015	5.	15.	7.	5.	20.	20.N	50.	200.N
190	79WG016	10.	50.	20.	5.L	30.	20.L	100.	200.N
191	79WG017	15.	10.N	30.	5.N	5.L	20.N	200.	200.N
192	79WG019	5.	10.L	5.L	5.N	5.	20.N	300.	200.N
193	79WG020	20.	50.	20.	5.N	20.	20.N	300.	200.N
194	79WG021	5.	10.N	10.	5.N	5.L	20.N	20.	200.N
195	79WG022	5.N	10.N	5.L	5.N	5.L	20.N	10.	200.N
196	79WG024	7.	10.N	5.	5.N	5.L	20.N	10.	300.
197	79WG026	5.	100.	15.	5.L	20.	20.N	100.	200.N
198	79WG028	7.	20.	5.L	5.N	15.	20.L	50.	200.N
199	79WG029	5.L	10.N	20.	5.N	5.L	20.N	50.	200.N
200	79WG030	7.	30.	15.	5.N	20.	20.	100.	200.N

* Sample located outside of map boundary

WILD ROGUE ROCK GEOCHEM-continued

ROWNO	SAMPLE	S-FE%	S-CA%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BI	S-CD
201	79WG031	3.00	1.00	500.00	0.500N	200.N	10.0N	20.L	200.	10.N	20.N
202	79WG032	3.00	0.10	700.00	0.500N	200.N	10.0N	50.	150.	10.N	20.N
203	79WG033	2.00	0.15	500.00	0.500N	200.N	10.0N	100.	150.	10.N	20.N
204	79WG034	3.00	0.15	300.00	0.500L	200.N	10.0N	50.	150.	10.N	20.N
205	79WG035	7.00	2.00	1000.00	0.500N	200.N	10.0N	20.L	20.	10.N	20.N
206	79WG036	5.00	1.50	1000.00	0.500N	200.N	10.0N	20.	20.L	10.N	20.N
207	79WG037	7.00	2.00	700.00	0.500N	200.N	10.0N	20.	20.N	10.N	20.N
208	79WG038	3.00	2.00	1000.00	0.500N	200.N	10.0N	100.	200.	10.N	20.N
209	79WG039	1.00	0.10	200.00	0.500N	200.N	10.0N	20.N	50.	10.N	20.N
210	79WG041	3.00	3.00	1000.00	0.500N	200.N	10.0N	20.	20.N	10.N	20.N
211	79WG042	5.00	2.00	700.00	0.500N	200.N	10.0N	20.	20.N	10.N	20.N
212	79WG044	5.00	2.00	700.00	0.500N	200.N	10.0N	20.	20.L	10.N	20.N
213	79WG045	7.00	3.00	1000.00	0.500N	200.N	10.0N	70.	20.	10.N	20.N
214	79WG046	0.05L	0.30	300.00	0.500N	200.N	10.0N	20.	70.	10.N	20.N
215	79WG047	5.00	1.50	500.00	0.500N	200.N	10.0N	20.L	20.N	10.N	20.N
216	79WG049	5.00	0.20	1000.00	0.500N	200.N	10.0N	300.	200.	10.N	20.N
217	79WG050	2.00	1.50	200.00	0.500N	200.N	10.0N	30.	70.	10.N	20.N
218	79WG051	3.00	1.00	500.00	0.500N	200.N	10.0N	50.	200.	10.N	20.N
219	79WG052	2.00	0.70	500.00	0.500N	200.N	10.0N	50.	200.	10.N	20.N
220	79WG054	7.00	1.00	1000.00	5.000	200.N	10.0N	20.	20.N	10.N	20.N
221	79WG055	7.00	1.50	1000.00	0.500N	200.N	10.0N	20.L	20.N	10.N	20.N
222	79WG056A	5.00	2.00	1000.00	0.500N	200.N	10.0N	20.L	20.N	10.N	20.N
223	79WG056B	3.00	1.00	300.00	0.500N	200.N	10.0N	20.N	20.	10.N	20.N
224	79WG056C	10.00	2.00	1500.00	0.500N	200.N	10.0N	20.	200.	10.N	20.N
225	79WG056D	5.00	0.10	700.00	0.500N	200.N	10.0N	300.	20.	10.N	20.N
226	79WG057	5.00	1.00	1000.00	0.500N	200.N	10.0N	50.	100.	10.N	20.N
227	79WG058	7.00	1.50	1500.00	0.500N	200.N	10.0N	20.N	20.N	10.N	20.N
228	79WG059	5.00	0.20	1000.00	0.500N	200.N	10.0N	30.	100.	10.N	20.N
229	79WM005	5.00	1.00	500.00	0.500N	200.N	10.0N	70.	200.	10.N	20.N
230	79WM019A	3.00	0.30	300.00	0.500N	200.N	10.0N	70.	200.	10.N	20.N
231	79WM024	3.00	0.30	300.00	0.500N	200.N	10.0N	20.	700.	10.N	20.N
232	79WM025	5.00	0.50	700.00	0.500N	200.N	10.0N	70.	200.	10.N	20.N
233	79WM027	5.00	1.00	700.00	0.500N	200.N	10.0N	30.	150.	10.N	20.N
234	79WM033	7.00	0.10	500.00	0.500N	200.N	10.0N	70.	100.	10.N	20.N
235	79WM035	5.00	10.00	5000.00G	0.500N	200.N	10.0N	50.	100.	10.N	20.N
236	79WM037	5.00	1.00	700.00	0.500N	200.N	10.0N	50.	700.	10.N	20.N
237	79WM039	5.00	1.00	200.00	0.500N	200.N	10.0N	30.	200.	10.N	20.N
238	79WM042	7.00	1.50	1000.00	0.500N	200.N	10.0N	100.	150.	10.N	20.N
239	79WM048	5.00	2.00	2000.00	0.500N	200.N	10.0N	50.	300.	10.N	20.N
240	79WM055	3.00	0.50	200.00	0.500N	200.N	10.0N	50.	100.	10.N	20.N
241	79WD002	10.00	0.05L	1000.00	0.500N	200.N	10.0N	50.	50.	10.N	20.N
242	79WD003	3.00	0.05L	500.00	0.500N	200.N	10.0N	20.	100.	10.N	20.N
243	79WD007	5.00	0.10	1000.00	0.500N	200.N	10.0N	30.	150.	10.N	20.N
244	79WD021	5.00	1.00	1000.00	0.500N	200.N	10.0N	50.	150.	10.N	20.N
245	79WD024	5.00	0.50	500.00	0.500N	200.N	10.0N	20.	300.	10.N	20.N
246	79WD027	15.00	2.00	1500.00	0.500N	200.N	10.0N	20.	200.	10.N	20.N
247	79WD028	10.00	5.00	1500.00	0.500N	200.N	10.0N	20.L	20.	10.N	20.N
248	79WD051	5.00	2.00	700.00	0.500N	200.N	10.0N	30.	300.	10.N	20.N
249	79WD052	7.00	1.00	1000.00	0.500N	200.N	10.0N	50.	100.	10.N	20.N
250	79WD054	7.00	3.00	700.00	0.500N	200.N	10.0N	70.	200.	10.N	20.N

WILD ROGUE ROCK GEOCHEM-continued

ROWNO	SAMPLE	S-CO	S-CR	S-CU	S-MO	S-NI	S-PB	S-V	S-ZN
201	79WG031	7.	20.	5.L	5.N	10.	20.L	70.	200.N
202	79WG032	10.	70.	7.	5.L	70.	20.N	100.	200.N
203	79WG033	15.	100.	15.	5.N	100.	20.N	100.	200.N
204	79WG034	20.	500.	10.	5.N	200.	20.N	100.	200.N
205	79WG035	20.	50.	5.L	5.N	30.	20.N	200.	200.N
206	79WG036	20.	50.	5.N	5.N	30.	20.N	200.	200.N
207	79WG037	20.	30.	50.	5.L	30.	20.N	300.	200.N
208	79WG038	15.	10.	50.	5.N	10.	20.N	100.	200.N
209	79WG039	5.	10.N	20.	5.N	5.L	20.N	50.	200.N
210	79WG041	30.	200.	5.	5.N	50.	20.N	100.	200.N
211	79WG042	20.	20.	100.	5.N	30.	20.N	300.	200.N
212	79WG044	15.	10.	15.	5.N	5.	20.N	200.	200.N
213	79WG045	20.	50.	20.	5.L	30.	20.N	200.	200.N
214	79WG046	5.N	10.N	5.N	5.N	5.L	20.	10.L	200.N
215	79WG047	15.	10.N	20.	5.N	5.	20.N	200.	200.N
216	79WG049	20.	50.	50.	5.N	50.	20.	150.	200.N
217	79WG050	7.	10.N	5.	5.N	50.	20.N	70.	200.N
218	79WG051	20.	50.	10.	5.N	30.	20.L	100.	200.N
219	79WG052	10.	20.	10.	5.N	20.	20.L	100.	200.N
220	79WG054	7.	20.	100.	5.N	5.	20.N	300.	200.N
221	79WG055	20.	30.	70.	5.N	20.	20.N	200.	200.N
222	79WG056A	30.	500.	20.	5.N	500.	20.N	70.	200.N
223	79WG056B	15.	10.N	20.	5.N	5.	20.N	70.	200.N
224	79WG056C	20.	10.	50.	5.N	10.	20.N	200.	200.N
225	79WG056D	30.	700.	10.	5.N	1000.	20.N	50.	200.N
226	79WG057	20.	100.	15.	5.N	50.	20.L	100.	200.N
227	79WG058	10.	10.N	10.	5.N	5.L	20.N	100.	200.N
228	79WG059	10.	50.	15.	5.N	30.	20.N	100.	200.N
229	79WM005	30.	300.	15.	5.N	200.	20.N	100.	200.N
230	79WM019A	20.	100.	20.	5.N	100.	20.N	100.	200.N
231	79WM024	10.	50.	10.	5.N	20.	20.	50.	200.N
232	79WM025	20.	500.	20.	5.N	100.	20.L	100.	200.N
233	79WM027	20.	200.	15.	5.N	50.	20.N	150.	200.N
234	79WM033	20.	500.	15.	5.N	100.	20.L	70.	200.N
235	79WM035	20.	150.	10.	5.L	100.	30.	50.	200.N
236	79WM037	20.	150.	10.	5.N	50.	20.	70.	200.N
237	79WM039	20.	150.	20.	5.N	100.	20.N	100.	200.N
238	79WM042	50.	1000.	20.	5.N	300.	20.L	100.	200.N
239	79WM048	30.	200.	20.	5.N	100.	20.L	100.	200.N
240	79WM055	20.	700.	20.	5.N	150.	20.L	100.	200.N
241	79WD002	7.	10.N	5.	5.N	5.L	20.N	20.	200.N
242	79WD003	15.	100.	10.	5.N	70.	20.N	50.	200.N
243	79WD007	20.	200.	15.	5.N	100.	20.N	100.	200.N
244	79WD021	10.	50.	15.	5.N	20.	20.L	100.	200.N
245	79WD024	10.	50.	20.	5.N	20.	30.	100.	200.N
246	79WD027	30.	70.	50.	5.N	30.	20.N	500.	200.N
247	79WD028	30.	150.	100.	5.N	50.	20.N	500.	200.N
248	79WD051	10.	50.	7.	5.N	20.	20.	50.	200.N
249	79WD052	20.	100.	20.	5.N	50.	20.N	100.	200.N
250	79WD054	10.	100.	20.	5.N	50.	20.N	200.	200.N

WILD ROGUE ROCK GEOCHEM-continued

ROWNO	SAMPLE	S-FE%	S-CA%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA	S-BI	S-CD
251	79WD055	10.00	2.00	1500.00	0.500N	200.N	10.0N	70.	200.	10.N	20.N
252	79WD056	5.00	1.00	500.00	0.500N	200.N	10.0N	20.L	20.L	10.N	20.N
253	79WD057	10.00	2.00	1000.00	0.500N	200.N	10.0N	20.	100.	10.N	20.N
254	79WD058	10.00	1.50	1000.00	0.500N	200.N	10.0N	70.	200.	10.N	20.N
255	79WD063	15.00	7.00	1000.00	0.500N	200.N	10.0N	20.L	20.N	10.N	20.N
256	79WD066	10.00	3.00	700.00	2.000	200.N	10.0N	20.L	20.N	10.N	20.N

ROWNO	SAMPLE	S-CO	S-CR	S-CU	S-MO	S-NI	S-PB	S-V	S-ZN
251	79WD055	15.	10.N	100.	5.N	5.	20.L	200.	200.N
252	79WD056	5.N	10.N	5.L	5.N	5.L	20.N	30.	200.N
253	79WD057	20.	10.N	70.	5.N	5.	20.N	200.	200.N
254	79WD058	20.	10.N	50.	5.N	5.	20.N	200.	200.N
255	79WD063	20.	10.N	30.	5.N	20.	20.N	300.	200.N
256	79WD066	30.	10.N	5.L	5.N	20.	20.N	500.	200.N

Table 3.--Stream-sediment geochemical analyses (Fe, Mg, Ca, and Ti in percent; others in parts per million. L, Detected but below limit of analytical determination; N, Not detected at the limit of analytical determination; G, Detected but above the limit of analytical determination; H, No data because of analytical interference; B, No analysis performed.)

WILD ROGUE SEDS GEOCHEM

ROWNO	SAMPLE	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-B	S-BA	S-CO	S-CR
1	WR001SS *	0.00B	0.00B	0.00B	0.000B	1000.	0.5N	150.	700.	30.	300.
2	WR002SS	0.00B	0.00B	0.00B	0.000B	1500.	0.5N	30.	500.	50.	1500.
3	WR003SS	0.00B	0.00B	0.00B	0.000B	1000.	0.5N	150.	700.	30.	200.
4	WR004SS	0.00B	0.00B	0.00B	0.000B	700.	0.5N	150.	700.	30.	300.
5	WR005SS	0.00B	0.00B	0.00B	0.000B	1500.	0.5N	30.	500.	50.	1000.
6	WR006SS	0.00B	0.00B	0.00B	0.000B	700.	0.5N	70.	700.	20.	300.
7	WR007SS	0.00B	0.00B	0.00B	0.000B	1500.	0.5N	30.	150.	50.	300.
8	WR008SS	0.00B	0.00B	0.00B	0.000B	700.	0.5N	100.	700.	20.	300.
9	WR009SS	0.00B	0.00B	0.00B	0.000B	1500.	0.5N	50.	300.	50.	1500.
10	WR010SS	0.00B	0.00B	0.00B	0.000B	1000.	0.5N	100.	700.	30.	500.
11	WR011SS	0.00B	0.00B	0.00B	0.000B	1000.	0.5N	70.	1000.	20.	500.
12	WR012SS	0.00B	0.00B	0.00B	0.000B	700.	0.5N	100.	700.	15.	300.
13	WR013SS	0.00B	0.00B	0.00B	0.000B	700.	0.5N	70.	500.	15.	150.
14	WR014SS	0.00B	0.00B	0.00B	0.000B	1000.	0.5N	70.	500.	20.	1000.
15	WR015SS	0.00B	0.00B	0.00B	0.000B	700.	0.5N	30.	200.	30.	1000.
16	WR016SS	0.00B	0.00B	0.00B	0.000B	700.	0.5N	100.	700.	30.	300.
17	WR017SS	0.00B	0.00B	0.00B	0.000B	1000.	0.5N	50.	300.	30.	500.
18	WR018SS	0.00B	0.00B	0.00B	0.000B	500.	0.5N	70.	500.	20.	500.
19	WR019SS	0.00B	0.00B	0.00B	0.000B	1000.	0.5N	100.	700.	30.	200.
20	WR020SS	0.00B	0.00B	0.00B	0.000B	700.	0.5N	100.	700.	30.	500.
21	WR021SS	0.00B	0.00B	0.00B	0.000B	700.	0.5N	100.	500.	30.	300.
22	WR022SS	0.00B	0.00B	0.00B	0.000B	700.	0.5N	70.	500.	20.	300.
23	WR023SS	0.00B	0.00B	0.00B	0.000B	1000.	0.5N	70.	500.	30.	500.
24	WR024SS	0.00B	0.00B	0.00B	0.000B	700.	0.5N	100.	500.	30.	500.
25	WR025SS	0.00B	0.00B	0.00B	0.000B	700.	0.5N	100.	500.	30.	500.
26	WR026SS	0.00B	0.00B	0.00B	0.000B	700.	0.5N	100.	500.	30.	1000.
27	WR027SS	0.00B	0.00B	0.00B	0.000B	1000.	0.5N	70.	500.	30.	1500.
28	WR028SS	0.00B	0.00B	0.00B	0.000B	1000.	0.5N	100.	500.	20.	500.
29	WR029SS	0.00B	0.00B	0.00B	0.000B	700.	0.5N	70.	200.	20.	150.
30	WR030SS	0.00B	0.00B	0.00B	0.000B	1500.	0.5N	70.	300.	20.	300.
31	WR001X	20.00	0.00B	0.00B	0.000B	7000.	0.5N	0.B	0.B	15.	300.
32	WR002X	20.00	0.00B	0.00B	0.000B	7000.	0.5N	0.B	0.B	30.	1000.
33	WR003X	20.00	0.00B	0.00B	0.000B	10000.	0.5N	0.B	0.B	20.	300.
34	WR004X	20.00	0.00B	0.00B	0.000B	7000.	0.5N	0.B	0.B	30.	200.
35	WR005X	30.00	0.00B	0.00B	0.000B	5000.	0.5N	0.B	0.B	30.	1500.
36	WR006X	20.00	0.00B	0.00B	0.000B	7000.	0.5N	0.B	0.B	50.	200.
37	WR007X	20.00	0.00B	0.00B	0.000B	5000.	0.5N	0.B	0.B	70.	300.
38	WR008X	20.00	0.00B	0.00B	0.000B	7000.	0.5N	0.B	0.B	70.	200.
39	WR009X	30.00	0.00B	0.00B	0.000B	7000.	0.5N	0.B	0.B	30.	1000.
40	WR010X	20.00	0.00B	0.00B	0.000B	5000.	0.5N	0.B	0.B	20.	500.
41	WR011X	30.00	0.00B	0.00B	0.000B	5000.	0.5N	0.B	0.B	30.	500.
42	WR012X	30.00	0.00B	0.00B	0.000B	7000.	0.5N	0.B	0.B	70.	500.
43	WR013X	30.00	0.00B	0.00B	0.000B	10000.	0.5N	0.B	0.B	200.	700.
44	WR014X	30.00	0.00B	0.00B	0.000B	7000.	0.5N	0.B	0.B	200.	1000.
45	WR015X	30.00	0.00B	0.00B	0.000B	3000.	0.5N	0.B	0.B	10.	3000.
46	WR016X	30.00	0.00B	0.00B	0.000B	7000.	0.5N	0.B	0.B	300.	700.
47	WR017X	30.00	0.00B	0.00B	0.000B	7000.	0.5N	0.B	0.B	200.	1000.
48	WR018X	30.00	0.00B	0.00B	0.000B	10000.	0.5N	0.B	0.B	200.	700.
49	WR019X	30.00	0.00B	0.00B	0.000B	10000.	0.5N	0.B	0.B	50.	500.
50	WR020X	30.00	0.00B	0.00B	0.000B	7000.	0.5N	0.B	0.B	200.	700.

* "SS" following sample numbers indicates standard analyses; "X" indicates analyses of oxalic acid leached portion

WILD ROGUE SEDS GEOCHEM-continued

ROWNO	SAMPLE	S-CU	S-LA	S-NI	S-PB	S-SC	S-SN	S-SR	S-V	S-Y	S-ZN
1	WR001SS	50.	0.B	100.	20.	0.B	10.N	0.B	150.	0.B	200.N
2	WR002SS	50.	0.B	150.	20.N	0.B	10.N	0.B	200.	0.B	200.N
3	WR003SS	70.	0.B	70.	20.	0.B	10.N	0.B	200.	0.B	200.N
4	WR004SS	70.	0.B	70.	20.	0.B	10.N	0.B	150.	0.B	200.N
5	WR005SS	50.	0.B	150.	20.L	0.B	10.N	0.B	200.	0.B	200.N
6	WR006SS	50.	0.B	70.	20.	0.B	10.N	0.B	150.	0.B	200.N
7	WR007SS	70.	0.B	100.	20.L	0.B	10.N	0.B	200.	0.B	200.N
8	WR008SS	30.	0.B	70.	20.L	0.B	10.N	0.B	150.	0.B	200.N
9	WR009SS	50.	150.	150.	20.N	0.B	10.N	0.B	200.	0.B	200.N
10	WR010SS	50.	0.B	100.	20.L	0.B	10.N	0.B	200.	0.B	200.N
11	WR011SS	70.	0.B	100.	20.L	0.B	10.N	0.B	200.	0.B	200.N
12	WR012SS	50.	0.B	70.	20.L	0.B	10.N	[illegible]	150.	0.B	200.N
13	WR013SS	50.	0.B	50.	20.L	0.B	10.N	[illegible]	150.	0.B	200.N
14	WR014SS	30.	0.B	150.	20.L	0.B	10.N	[illegible]	150.	0.B	200.N
15	WR015SS	20.	0.B	200.	20.N	0.B	10.N	0.B	200.	0.B	200.N
16	WR016SS	50.	0.B	150.	20.	0.B	10.N	0.B	150.	0.B	200.N
17	WR017SS	50.	0.B	100.	20.L	0.B	10.N	0.B	200.	0.B	200.N
18	WR018SS	20.	0.B	100.	20.L	0.B	10.N	0.B	100.	0.B	200.N
19	WR019SS	150.	0.B	70.	20.	0.B	10.N	0.B	150.	0.B	200.N
20	WR020SS	70.	0.B	150.	20.L	0.B	10.N	0.B	100.	0.B	200.N
21	WR021SS	50.	0.B	150.	20.L	0.B	10.N	0.B	150.	0.B	200.N
22	WR022SS	30.	0.B	150.	20.L	0.B	10.N	0.B	150.	0.B	200.N
23	WR023SS	30.	0.B	150.	20.L	0.B	10.N	0.B	150.	0.B	200.N
24	WR024SS	50.	0.B	150.	20.L	0.B	10.N	0.B	150.	0.B	200.N
25	WR025SS	50.	0.B	150.	20.N	0.B	10.N	0.B	100.	0.B	200.N
26	WR026SS	50.	0.B	200.	20.L	0.B	10.N	0.B	150.	0.B	200.N
27	WR027SS	50.	0.B	150.	20.L	0.B	10.N	0.B	200.	0.B	200.N
28	WR028SS	50.	0.B	100.	20.L	0.B	10.N	0.B	150.	0.B	200.N
29	WR029SS	100.	0.B	70.	20.L	0.B	10.N	0.B	200.	0.B	200.N
30	WR030SS	70.	0.B	50.	20.L	0.B	10.N	0.B	150.	0.B	200.N
31	WR001X	30.	0.B	70.	100.	0.B	10.N	0.B	0.B	50.	200.L
32	WR002X	150.	0.B	300.	70.	0.B	10.N	0.B	0.B	30.	200.L
33	WR003X	70.	0.B	100.	150.	0.B	10.N	0.B	0.B	50.	200.N
34	WR004X	150.	0.B	200.	150.	0.B	10.N	0.B	0.B	50.	200.L
35	WR005X	70.	0.B	300.	100.	0.B	10.N	0.B	0.B	50.	200.L
36	WR006X	70.	0.B	300.	70.	0.B	10.N	0.B	0.B	30.	200.L
37	WR007X	500.	0.B	300.	50.	0.B	10.N	0.B	0.B	15.	200.
38	WR008X	150.	0.B	500.	50.	0.B	10.N	0.B	0.B	30.	200.
39	WR009X	150.	0.B	300.	50.	0.B	10.N	0.B	0.B	20.	200.L
40	WR010X	70.	0.B	150.	30.	0.B	10.N	0.B	0.B	15.	200.L
41	WR011X	100.	0.B	200.	70.	0.B	10.N	0.B	0.B	10.	200.L
42	WR012X	200.	0.B	500.	70.	0.B	10.N	0.B	[illegible].B	30.	200.
43	WR013X	500.	0.B	700.	100.	0.B	10.N	0.B	[illegible].B	70.	500.
44	WR014X	300.	0.B	1000.	100.	0.B	10.N	0.B	[illegible].B	50.	200.
45	WR015X	20.	0.B	500.	20.L	0.B	10.N	0.B	0.B	10.	200.N
46	WR016X	300.	0.B	1000.	150.	0.B	10.N	0.B	0.B	70.	500.
47	WR017X	300.	0.B	700.	150.	0.B	10.N	0.B	0.B	70.	300.
48	WR018X	300.	0.B	700.	100.	0.B	10.N	0.B	0.B	50.	500.
49	WR019X	150.	0.B	200.	200.	0.B	10.N	0.B	0.B	70.	200.L
50	WR020X	300.	0.B	1000.	100.	0.B	10.N	0.B	0.B	70.	500.

WILD ROGUE SEDS GEOCHEM-continued

ROWNO	SAMPLE	S-ZR	INST-HG	CM-AS
1	WR001SS	0.B	0.10	0.00B
2	WR002SS	0.B	0.02L	0.00B
3	WR003SS	0.B	0.12	0.00B
4	WR004SS	0.B	0.14	0.00B
5	WR005SS	0.B	0.06	0.00B
6	WR006SS	0.B	0.12	0.00B
7	WR007SS	0.B	0.30	0.00B
8	WR008SS	0.B	0.04	0.00B
9	WR009SS	0.B	0.02	0.00B
10	WR010SS	0.B	0.14	0.00B
11	WR011SS	0.B	0.08	0.00B
12	WR012SS	0.B	0.08	0.00B
13	WR013SS	0.B	0.04H	0.00B
14	WR014SS	0.B	0.06	0.00B
15	WR015SS	0.B	0.16	0.00B
16	WR016SS	0.B	0.10	0.00B
17	WR017SS	0.B	0.04	0.00B
18	WR018SS	0.B	0.06	0.00B
19	WR019SS	0.B	0.08	0.00B
20	WR020SS	0.B	0.10	0.00B
21	WR021SS	0.B	0.08	0.00B
22	WR022SS	0.B	0.06	0.00B
23	WR023SS	0.B	0.04	0.00B
24	WR024SS	0.B	0.06	0.00B
25	WR025SS	0.B	0.04	0.00B
26	WR026SS	0.B	0.06	0.00B
27	WR027SS	0.B	0.04	0.00B
28	WR028SS	0.B	0.08	0.00B
29	WR029SS	0.B	0.06	0.00B
30	WR030SS	0.B	0.06	0.00B
31	WR001X	0.B	0.00B	20.00
32	WR002X	0.B	0.00B	10.00
33	WR003X	0.B	0.00B	20.00
34	WR004X	0.B	0.00B	20.00
35	WR005X	0.B	0.00B	10.00L
36	WR006X	0.B	0.00B	10.00
37	WR007X	0.B	0.00B	10.00N
38	WR008X	0.B	0.00B	10.00
39	WR009X	0.B	0.00B	10.00
40	WR010X	0.B	0.00B	10.00L
41	WR011X	0.B	0.00B	10.00L
42	WR012X	0.B	0.00B	10.00
43	WR013X	0.B	0.00B	10.00L
44	WR014X	0.B	0.00B	10.00
45	WR015X	0.B	0.00B	10.00N
46	WR016X	0.B	0.00B	10.00L
47	WR017X	0.B	0.00B	10.00
48	WR018X	0.B	0.00B	10.00
49	WR019X	0.B	0.00B	20.00
50	WR020X	0.B	0.00B	10.00

WILD ROGUE SEDS GEOCHEM-continued

ROWNO	SAMPLE	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-B	S-BA	S-CO	S-CR
51	WR021X	30.00	0.00B	0.00B	0.000B	10000.	0.5N	0.B	0.B	300.	700.
52	WR022X	30.00	0.00B	0.00B	0.000B	7000.	0.5N	0.B	0.B	200.	1500.
53	WR023X	20.00	0.00B	0.00B	0.000B	10000.	0.5N	0.B	0.B	100.	700.
54	WR024X	20.00	0.00B	0.00B	0.000B	7000.	0.5N	0.B	0.B	100.	700.
55	WR025X	20.00	0.00B	0.00B	0.000B	5000.	0.5N	0.B	0.B	30.	1000.
56	WR026X	30.00	0.00B	0.00B	0.000B	5000.	0.5N	0.B	0.B	100.	1000.
57	WR027X	30.00	0.00B	0.00B	0.000B	7000.	0.5N	0.B	0.B	200.	1000.
58	WR028X	20.00	0.00B	0.00B	0.000B	7000.	0.5N	0.B	0.B	150.	700.
59	WR029X	30.00	0.00B	0.00B	0.000B	3000.	0.5N	0.B	0.B	150.	300.
60	WR030X	30.00	0.00B	0.00B	0.000B	10000.G	0.5N	0.B	0.B	150.	300.
61	WR031SS	5.00	2.00	1.50	0.500	1500.	1.0	150.	500.	20.	150.
62	WR032SS	5.00	2.00	1.00	0.500	1000.	0.5N	150.	500.	20.	200.
63	WR033SS	5.00	5.00	1.00	0.500	1000.	0.5N	100.	700.	30.	700.
64	WR034SS	5.00	2.00	0.70	0.500	1000.	0.5N	100.	700.	15.	300.
65	WR035SS	5.00	3.00	1.50	0.500	1500.	0.5N	70.	500.	20.	700.
66	WR036SS	7.00	3.00	2.00	0.500	2000.	0.5N	100.	300.	30.	200.
67	WR037SS	10.00	5.00	7.00	0.700	2000.	0.5N	50.	100.	50.	300.
68	WR038SS	5.00	1.50	1.00	0.500	1500.	0.5N	100.	700.	20.	150.
69	WR039SS	5.00	1.50	1.00	0.500	1500.	0.5N	100.	700.	20.	200.
70	WR040SS	5.00	5.00	3.00	0.300	2000.	0.5N	50.	200.	50.	200.
71	WR031X	20.00	0.00B	0.00B	0.000B	7000.	0.5N	0.B	0.B	100.	300.
72	WR032X	30.00	0.00B	0.00B	0.000B	7000.	0.5N	0.B	0.B	150.	300.
73	WR033X	20.00	0.00B	0.00B	0.000B	3000.	0.5N	0.B	0.B	150.	1500.
74	WR034X	20.00	0.00B	0.00B	0.000B	7000.	0.5N	0.B	0.B	70.	300.
75	WR035X	30.00	0.00B	0.00B	0.000B	7000.	0.5N	0.B	0.B	100.	500.
76	WR036X	30.00	0.00B	0.00B	0.000B	10000.	0.5N	0.B	0.B	150.	500.
77	WR037X	20.00	0.00B	0.00B	0.000B	5000.	0.5N	0.B	0.B	70.	300.
78	WR038X	20.00	0.00B	0.00B	0.000B	7000.	0.5N	0.B	0.B	100.	300.
79	WR039X	30.00	0.00B	0.00B	0.000B	7000.	0.5N	0.B	0.B	150.	300.
80	WR040X	15.00	0.00B	0.00B	0.000B	7000.	0.5N	0.B	0.B	150.	300.

WILD ROGUE SEDS GEOCHEM-continued

ROWNO	SAMPLE	S-CU	S-LA	S-NI	S-PB	S-SC	S-SN	S-SR	S-V	S-Y	S-ZN
51	WR021X	500.	0.B	1500.	150.	0.B	10.N	0.B	0.B	70.	500.
52	WR022X	200.	0.B	1000.	100.	0.B	10.N	0.B	0.B	50.	300.
53	WR023X	150.	0.B	700.	70.	0.B	10.N	0.B	0.B	50.	200.
54	WR024X	150.	0.B	700.	100.	0.B	10.N	0.B	0.B	70.	200.
55	WR025X	70.	0.B	500.	70.	0.B	10.N	0.B	0.B	50.	200.L
56	WR026X	150.	0.B	700.	70.	0.B	10.N	0.B	0.B	70.	200.
57	WR027X	200.	0.B	1000.	70.	0.B	10.N	0.B	0.B	50.	200.
58	WR028X	300.	0.B	700.	70.	0.B	15.	0.B	0.B	30.	200.
59	WR029X	300.	0.B	150.	70.	0.B	10.N	0.B	0.B	70.	200.
60	WR030X	300.	0.B	300.	70.	0.B	10.N	0.B	0.B	70.	300.
61	WR031SS	100.	20.N	50.	70.	30.	10.N	150.	300.	20.	200.
62	WR032SS	50.	20.N	100.	20.	30.	10.N	150.	300.	30.	200.N
63	WR033SS	50.	20.N	300.	20.L	20.	10.N	150.	300.	20.	200.N
64	WR034SS	30.	30.	70.	20.	20.	10.N	150.	300.	20.	200.N
65	WR035SS	30.	20.	150.	20.L	20.	10.N	200.	300.	20.	200.N
66	WR036SS	100.	20.N	70.	30.	50.	10.N	200.	500.	20.	200.N
67	WR037SS	100.	20.N	100.	20.N	70.	10.N	300.	500.	50.	200.N
68	WR038SS	50.	20.N	70.	20.	20.	10.N	200.	300.	30.	200.N
69	WR039SS	50.	20.N	70.	20.	20.	10.N	200.	200.	30.	200.N
70	WR040SS	100.	20.N	70.	20.L	50.	10.N	150.	300.	20.	200.N
71	WR031X	500.	0.B	150.	150.	0.B	10.N	0.B	0.B	10.	700.
72	WR032X	300.	0.B	300.	70.	0.B	10.N	0.B	0.B	10.L	300.
73	WR033X	150.	0.B	1000.	100.	0.B	10.N	0.B	0.B	50.	200.
74	WR034X	150.	0.B	200.	150.	0.B	10.N	0.B	0.B	70.	200.L
75	WR035X	200.	0.B	700.	100.	0.B	10.N	0.B	0.B	50.	300.
76	WR036X	300.	0.B	200.	70.	0.B	10.N	0.B	0.B	10.	300.
77	WR037X	300.	0.B	100.	20.L	0.B	10.N	0.B	0.B	10.	200.L
78	WR038X	300.	0.B	300.	70.	0.B	10.N	0.B	0.B	15.	300.
79	WR039X	300.	0.B	300.	100.	0.B	10.N	0.B	0.B	20.	500.
80	WR040X	500.	0.B	150.	20.	0.B	10.N	0.B	0.B	15.	200.

WILD ROGUE SEDS GEOCHEM-continued

ROWNO	SAMPLE	S-ZR	INST-HG	CM-AS
51	WR021X	0.B	0.00B	10.00L
52	WR022X	0.B	0.00B	10.00
53	WR023X	0.B	0.00B	10.00
54	WR024X	0.B	0.00B	10.00
55	WR025X	0.B	0.00B	20.00
56	WR026X	0.B	0.00B	10.00L
57	WR027X	0.B	0.00B	10.00
58	WR028X	0.B	0.00B	10.00
59	WR029X	0.B	0.00B	10.00N
60	WR030X	0.B	0.00B	10.00N
61	WR031SS	150.	0.28	0.00B
62	WR032SS	200.	0.18	0.00B
63	WR033SS	150.	0.12	0.00B
64	WR034SS	300.	0.08	0.00B
65	WR035SS	300.	0.08	0.00B
66	WR036SS	200.	0.20	0.00B
67	WR037SS	70.	0.08	0.00B
68	WR038SS	150.	0.18	0.00B
69	WR039SS	200.	0.22	0.00B
70	WR040SS	70.	0.20	0.00B
71	WR031X	0.B	0.00B	10.00L
72	WR032X	0.B	0.00B	10.00L
73	WR033X	0.B	0.00B	10.00L
74	WR034X	0.B	0.00B	10.00
75	WR035X	0.B	0.00B	10.00L
76	WR036X	0.B	0.00B	10.00N
77	WR037X	0.B	0.00B	10.00N
78	WR038X	0.B	0.00B	10.00
79	WR039X	0.B	0.00B	10.00L
80	WR040X	0.B	0.00B	10.00N

Publication Listing (d0039) was used to produce tables 2 and 3.

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DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

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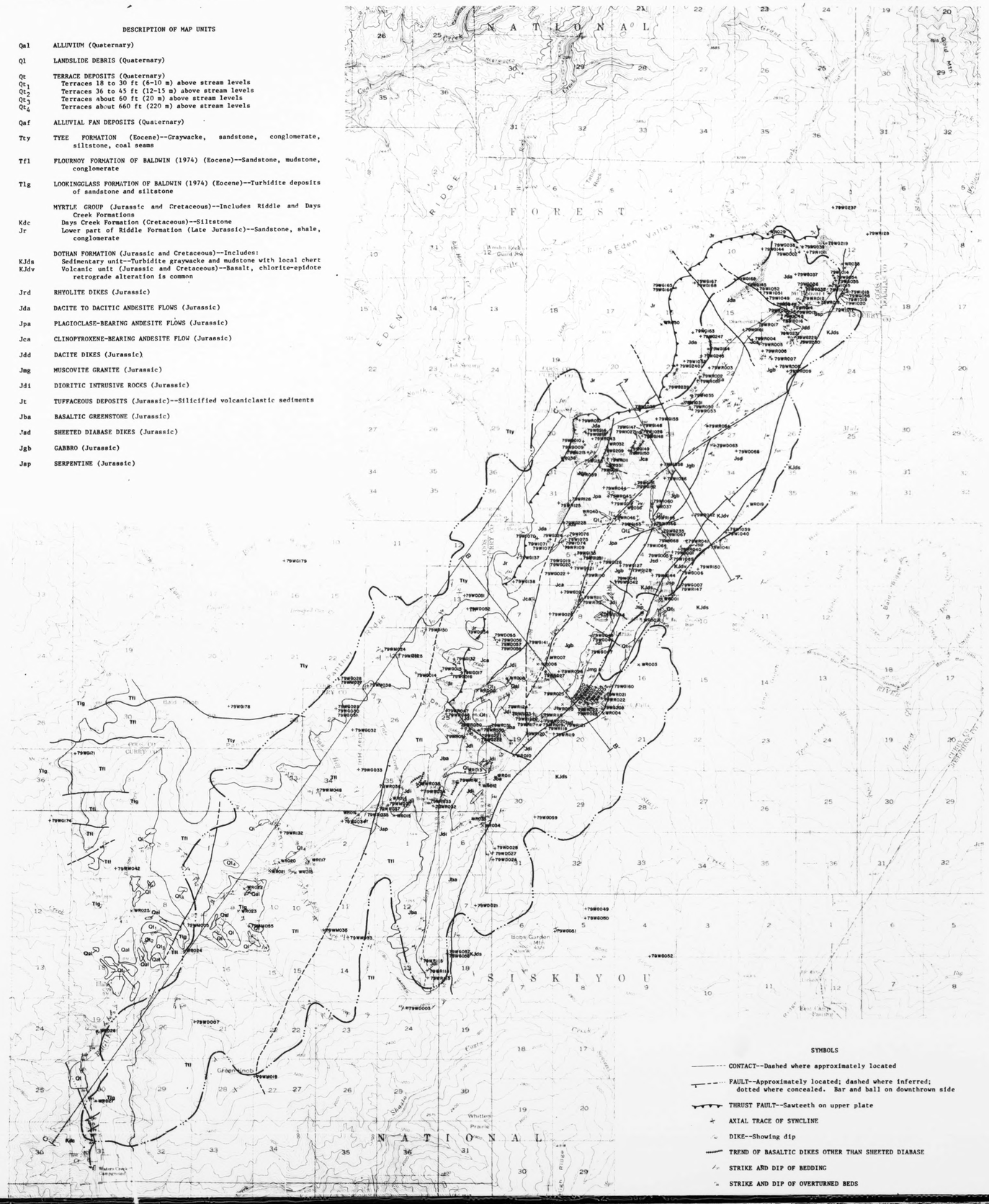
DESCRIPTION OF MAP UNITS

Qal	ALLUVIUM (Quaternary)
Ql	LANDSLIDE DEBRIS (Quaternary)
Qt	TERRACE DEPOSITS (Quaternary)
Qt_1	Terraces 18 to 30 ft (6-10 m) above stream levels
Qt_2	Terraces 36 to 45 ft (12-15 m) above stream levels
Qt_3	Terraces about 60 ft (20 m) above stream levels
Qt_4	Terraces about 660 ft (220 m) above stream levels
Qaf	ALLUVIAL FAN DEPOSITS (Quaternary)
Tty	TYEE FORMATION (Eocene)--Graywacke, sandstone, conglomerate, siltstone, coal seams
Tfl	FLOURNOY FORMATION OF BALDWIN (1974) (Eocene)--Sandstone, mudstone, conglomerate
Tlg	LOOKINGGLASS FORMATION OF BALDWIN (1974) (Eocene)--Turbidite deposits of sandstone and siltstone
	MYRTLE GROUP (Jurassic and Cretaceous)--Includes Riddle and Days Creek Formations
Kdc	Days Creek Formation (Cretaceous)--Siltstone
Jr	Lower part of Riddle Formation (Late Jurassic)--Sandstone, shale, conglomerate
	DOTHAN FORMATION (Jurassic and Cretaceous)--Includes:
KJds	Sedimentary unit--Turbidite graywacke and mudstone with local chert
KJdv	Volcanic unit (Jurassic and Cretaceous)--Basalt, chlorite-epidote retrograde alteration is common
Jrd	RHYOLITE DIKES (Jurassic)
Jda	DACITE TO DACITIC ANDESITE FLOWS (Jurassic)
Jpa	PLAGIOCLASE-BEARING ANDESITE FLOWS (Jurassic)
Jca	CLINOPYROXENE-BEARING ANDESITE FLOW (Jurassic)
Jdd	DACITE DIKES (Jurassic)
Jmg	MUSCOVITE GRANITE (Jurassic)
Jdi	DIORITIC INTRUSIVE ROCKS (Jurassic)
Jt	TUFFACEOUS DEPOSITS (Jurassic)--Silicified volcaniclastic sediments
Jba	BASALTIC GREENSTONE (Jurassic)
Jsd	SHEETED DIABASE DIKES (Jurassic)
Jgb	GABBRO (Jurassic)
Jsp	SERPENTINE (Jurassic)



SYMBOLS

- CONTACT--Dashed where approximately located
- FAULT--Approximately located; dashed where inferred; dotted where concealed. Bar and ball on downthrown side
- THRUST FAULT--Sawteeth on upper plate
- AXIAL TRACE OF SYNCLINE
- DIKE--Showing dip
- TREND OF BASALTIC DIKES OTHER THAN SHEETED DIABASE
- STRIKE AND DIP OF BEDDING
- STRIKE AND DIP OF OVERTURNED BEDS

Conglomerate

KJds DOTHAN FORMATION (Jurassic and Cretaceous)--Includes:
Sedimentary unit--Turbidite graywacke and mudstone with local chert
KJdv Volcanic unit (Jurassic and Cretaceous)--Basalt, chlorite-epidote retrograde alteration is common

Jrd RHYOLITE DIKES (Jurassic)

Jda DACITE TO DACITIC ANDESITE FLOWS (Jurassic)

Jpa PLAGIOCLASE-BEARING ANDESITE FLOWS (Jurassic)

Jca CLINOPYROXENE-BEARING ANDESITE FLOW (Jurassic)

Jdd DACITE DIKES (Jurassic)

Jmg MUSCOVITE GRANITE (Jurassic)

Jdi DIORITIC INTRUSIVE ROCKS (Jurassic)

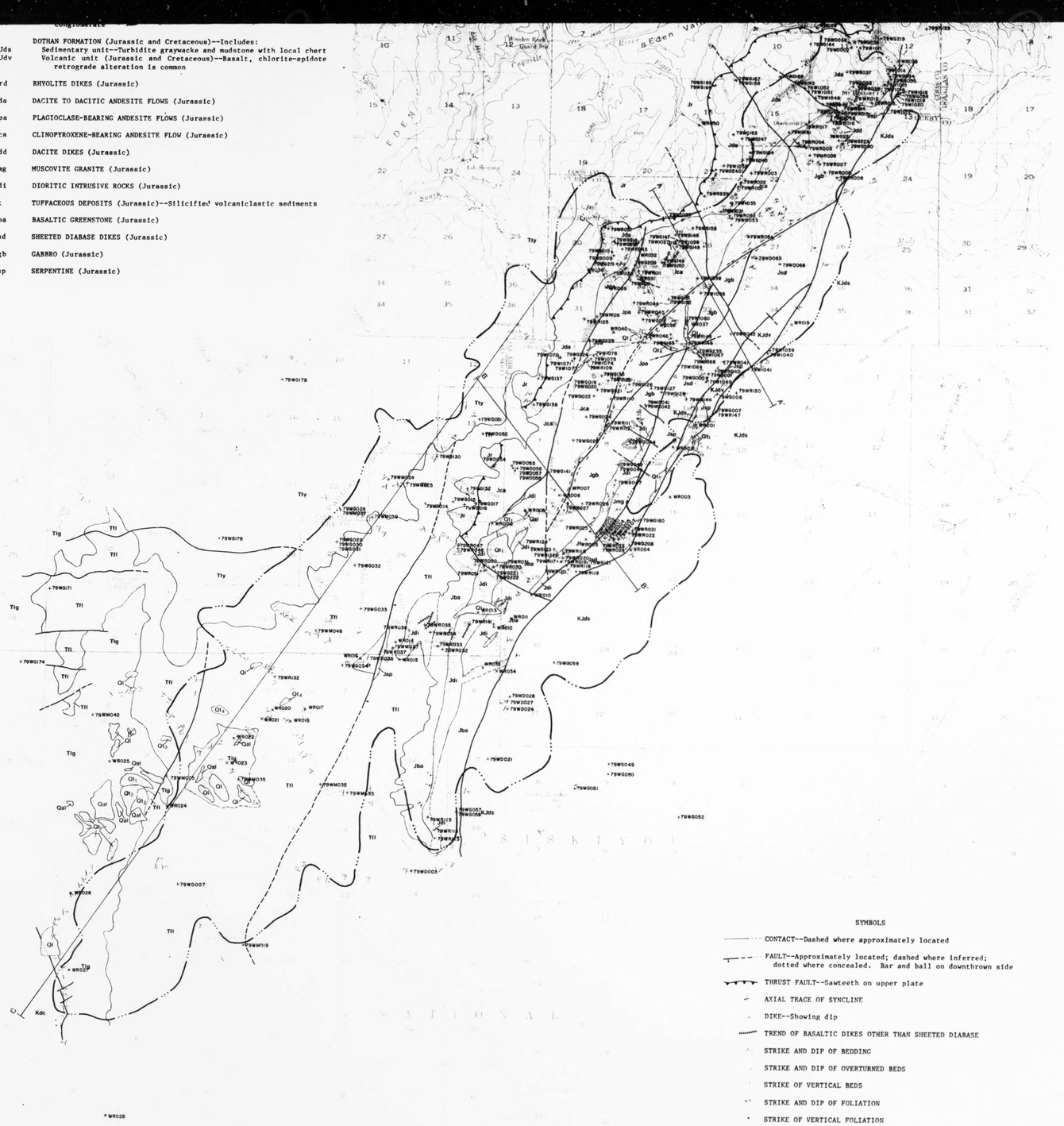
Jt TUFFACEOUS DEPOSITS (Jurassic)--Silicified volcaniclastic sediments

Jba BASALTIC GREENSTONE (Jurassic)

Jsd SHEETED DIABASE DIKES (Jurassic)

Jgb GABBRO (Jurassic)

Jsp SERPENTINE (Jurassic)



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- STRIKE OF VERTICAL BEDS
- STRIKE AND DIP OF FOLIATION
- STRIKE OF VERTICAL FOLIATION
- STRIKE AND DIP OF JOINTS
- SHEAR ZONE
- BOUNDARY OF WILD ROGUE WILDERNESS
- +79WG147 LOCATION OF ROCK SAMPLES
- •WR026 LOCATION OF STREAM-SEDIMENT SAMPLES

Base from U.S. Geological Survey
1:62,500: Agness, Bone Mountain, Marial, and Powers, Ore

APPROXIMATE MEAN DECLINATION, 1980

SCALE 1:48 000

1 0 1 2 3 Miles
1000 500 0 1000 2000 3000 4000 Meters

CONTOUR INTERVAL 80 FEET
DATUM IS MEAN SEA LEVEL

Geology by F. Gray, Len Ramp, B. Moring, Ian Douglas, and J. Donahoe; 1979-1980

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature.

GEOCHEMICAL ANALYSES OF ROCK AND STREAM-SEDIMENT SAMPLES FROM THE WILD ROGUE WILDERNESS AREA, COOS, CURRY, AND DOUGLAS COUNTIES, OREGON

By

Floyd Gray and Jocelyn A. Peterson

1982